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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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David E. Daws

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EXAMINER

ZERVIGON, RUDY

ART UNIT

PAPER NUMBER

1792

MAIL DATE

DELIVERY MODE

03/21/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/658,988	DAWS ET AL.	
	Examiner	Art Unit	
	Rudy Zervigon	1792	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 24-27 and 29-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 28 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 20, 2008 has been entered.

Oath/Declaration

2. It refers only to the system described in the above referenced application and not to the individual claims of the application. Thus, there is no showing that the objective evidence of nonobviousness is commensurate in scope with the claims. See MPEP § 716.

3. In view of the foregoing, when all of the evidence is considered, the totality of the rebuttal evidence of nonobviousness fails to outweigh the evidence of obviousness (in this case, anticipation).

Claim Objections

4. Claim 28 objected to because of the following informalities: Claim 28 was cancelled in the July 10, 2007 amendment. The February 20, 2008 claim 28 will be treated as a new claim *when* the proper fee for adding a claim is charged. In the present action, claim 28 is treated as cancelled per the July 10, 2007 amendment. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 24, 25, 29-35, and 36-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Christin et al. (US 5,904,957 A). Christin teaches a furnace (19, 11a,b; Figure 2) for densifying a number of porous structures (12; Figure 2; column 5, lines 61-67) stacked adjacent each other in a plurality of stacks (see plural lowest 30; Figure 2; column 6, lines 49-58), (see plural lowest 30; Figure 2; column 6, lines 49-58), each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) being supported by a base plate (15a; Figure 2) with a top surface of said base plate (15a; Figure 2) being disposed below a lowest porous structure (12; Figure 2; column 5, lines 61-67) in each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58), wherein each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) comprise a center opening region (31; Figure 2) and an outer region (36; Figure 2), the furnace (19, 11a,b; Figure 2) comprising an inlet duct (16; Figure 2) and an outlet duct (17; Figure 2); a sealed (compare with Applicant's element 18 Figure 1) preheater (20; Figure 2; column 6; lines 10-20) in communication with said inlet duct (16; Figure 2) and a discharge opening (holes in 20; Figure 2) of said preheater (20; Figure 2; column 6; lines 10-20), wherein substantially all of a gas flow entering said inlet duct (16; Figure 2) passes through said preheater (20; Figure 2; column 6; lines 10-20) and exits said discharge opening (holes in 20; Figure 2); an inlet opening (holes of lowest 15, not labelled; Figure 2) extending through said base plate (15a; Figure 2) in communication with said discharge opening (holes in 20; Figure 2) and said center opening region (31; Figure 2); and a plurality of openings (openings in 15a; Figure 2) extending through

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said base plate (15a; Figure 2) in communication with said discharge opening (holes in 20; Figure 2) and said outer region (36; Figure 2), said plurality of openings (openings in 15a; Figure 2) being disposed around each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) and being in proximity to the entire outer region (36; Figure 2) of each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58); wherein a size of said inlet opening (holes of lowest 15, not labelled; Figure 2) controls said gas flow to said center opening region (31; Figure 2) wherein a predetermined first portion of said gas passes through said inlet opening (holes of lowest 15, not labelled; Figure 2) to said center opening region (31; Figure 2) and a remaining predetermined second portion passes below said top surface of said base plate (15a; Figure 2) and through said plurality of openings (openings in 15a; Figure 2) (volume within 25+22a; Figure 2) to said outer region (36; Figure 2), as claimed by claim 24 – Applicant's claim requirement of "first portion", "second portion", and "said inlet duct and said passageway being disposed below a lowest porous structure in said stack" of the process gas are claim requirements of intended use of the pending apparatus claims. The Apparatus of Figure 2 can be partially loaded with porous structures (12; Figure 2; column 5, lines 61-67), for example from 15b and above, to meet the claim requirement of "lowest porous structure".

Further, it has been held that claim language that simply specifies an intended use or field of use for the invention generally will not limit the scope of a claim (Walter , 618 F.2d at 769, 205 USPQ at 409; MPEP 2106). Additionally, in apparatus claims, intended use must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of

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performing the intended use, then it meets the claim (In re Casey, 152 USPQ 235 (CCPA 1967); In re Otto, 136 USPQ 458, 459 (CCPA 1963); MPEP2111.02).

Christin further teaches:

- i. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a hole (holes of lowest 15, not labelled; Figure 2) receiving said gas from said discharge opening (holes in 20; Figure 2) and a passageway (volume within 25+22a; Figure 2) extending from said hole (holes of lowest 15, not labelled; Figure 2) to said outer region (36; Figure 2) said second portion passing through said passageway to said plurality of openings (openings in 15a; Figure 2), as claimed by claim 25. Applicant's claim requirement of "first portion", "second portion", and "said inlet duct and said passageway being disposed below a lowest porous structure in said stack" of the process gas are claim requirements of intended use of the pending apparatus claims. The Apparatus of Figure 2 can be partially loaded with porous structures (12; Figure 2; column 5, lines 61-67), for example from 15b and above, to meet the claim requirement of "lowest porous structure".
- ii. The furnace (19, 11a,b; Figure 2) according to claim 24, wherein said first portion is between about 60% to 80% of said gas and said second portion is between about 40% to 20% of said gas – claim 29 – Applicant's "first portion" and "second portion" is not structural recitation. See above.
- iii. The furnace (19, 11a,b; Figure 2) according to claim 24, wherein said first portion is between about 15% to 35% of said gas and said second portion is between about 85% to 65% of said gas – claim 30 – Applicant's "first portion" and "second portion" is not structural recitation. See above.

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iv. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising spacers (33; Figure 2) disposed between adjacent porous structures (12; Figure 2; column 5, lines 61-67) in each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) thereby forming open passages (34; column 6, lines 58-67) therebetween, wherein some of one of said first and second portions of said gas passes between said center opening region (31; Figure 2) and said outer region (36; Figure 2) through said open passages, as claimed by claim 31. Applicant's claim requirement of "first and second portions of said gas" is a claim requirement of intended use of the pending apparatus claims. Further, it has been held that claim language that simply specifies an intended use or field of use for the invention generally will not limit the scope of a claim (Walter , 618 F.2d at 769, 205 USPQ at 409; MPEP 2106). Additionally, in apparatus claims, intended use must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim (In re Casey, 152 USPQ 235 (CCPA 1967); In re Otto , 136 USPQ 458, 459 (CCPA 1963); MPEP2111.02).

v. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a top support plate (26; Figure 2) disposed away from one of the porous structures (12; Figure 2; column 5, lines 61-67) at an end of each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said base plate (15a; Figure 2) thereby blocking a portion of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end and thereby forming an open passage (holes in 26, not labelled; Figure 2) therebetween wherein some of said gas passes between said center opening region (31; Figure 2) and said outer region (36; Figure 2) through said open passage (holes in 26, not labelled; Figure 2), as claimed by claim 32

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- vi. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a top support plate (26; Figure 2) disposed at an end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said base plate (15a; Figure 2) thereby blocking most of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end, said top support plate (26; Figure 2) comprising at least one hole (not labelled; Figure 2) adjacent said center opening region (31; Figure 2) and extending therethrough, wherein at least some of said gas passes out of said center opening region (31; Figure 2) at said end through said hole (not labelled; Figure 2), as claimed by claim 33
- vii. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a cap (26; Figure 2) disposed at one end of each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) and extending partially into said center opening region (31; Figure 2) thereby blocking most of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end, said cap (26; Figure 2) comprising at least one longitudinal hole (not labelled; Figure 2), wherein at least some of said gas passes out of said center opening region (31; Figure 2) at said end through said longitudinal hole (not labelled; Figure 2), as claimed by claim 34
- viii. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a top support plate (26; Figure 2) disposed at an end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said one end, wherein said top support plate (26; Figure 2) comprises an exit hole (not labelled; Figure 2) adjacent said center opening region (31; Figure 2), said top support plate (26; Figure 2) blocking said outer region (36; Figure 2) whereby

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substantially all of said second portion of gas passes through one or more of said exit holes (not labelled; Figure 2), as claimed by claim 36

ix. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a hole (holes of lowest 15, not labelled; Figure 2) receiving said gas from said discharge opening (holes in 20; Figure 2) and a passageway (volume within 25+22a; Figure 2) extending from said hole (holes of lowest 15, not labelled; Figure 2) to said outer region (36; Figure 2) said second portion passing through said passageway to said plurality of openings (openings in 15a; Figure 2), and a distributor (25; Figure 2), wherein said hole (holes of lowest 15, not labelled; Figure 2) and said passageway (volume within 25+22a; Figure 2) extend through said distributor (25; Figure 2), said hole (holes of lowest 15, not labelled; Figure 2) being in communication with said inlet opening (holes of lowest 15, not labelled; Figure 2), wherein said distributor (25; Figure 2) is disposed between a floor plate (11a; Figure 2) of the furnace (19, 11a,b; Figure 2) and said base plate (15a; Figure 2), and wherein said passageway (volume within 25+22a; Figure 2) passes said second portion to a space between said floor plate (11a; Figure 2) and said base plate (15a; Figure 2); wherein said first portion is between about 60% to 80% of said gas and said second portion is between about 40% to 20% of said gas (“first portion”, “second portion”; see above); and further comprising spacers (33; Figure 2) disposed between adjacent porous structures (12; Figure 2; column 5, lines 61-67) in the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) thereby forming open passages (34; column 6, lines 58-67) therebetween, wherein some of said gas passes from said center opening region (31; Figure 2) to said outer region (36; Figure 2) through said open passages – claim 38. Applicant’s claim requirement of “first portion”, “second portion”, and “said inlet duct and said passageway being

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disposed below a lowest porous structure in said stack” of the process gas are claim requirements of intended use of the pending apparatus claims. The Apparatus of Figure 2 can be partially loaded with porous structures (12; Figure 2; column 5, lines 61-67), for example from 15b and above, to meet the claim requirement of “lowest porous structure”.

x. The furnace (19, 11a,b; Figure 2) according to claim 38, further comprising a top support plate (26; Figure 2) disposed away from one of the porous structures (12; Figure 2; column 5, lines 61-67) at an end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said one end thereby blocking a portion of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end and thereby forming an open passage (holes in 26, not labelled; Figure 2) therebetween wherein some of said first portion of gas passes from said center opening region (31; Figure 2) to said outer region (36; Figure 2) through said open passage (holes in 26, not labelled; Figure 2), as claimed by claim 39

Claim Rejections - 35 USC § 103

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

8. Claim 27, 37, 41, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christin et al. (US 5,904,957 A). Christin is discussed above. Christin further teaches:

i. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a top support plate (26; Figure 2) disposed at an end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said one end, wherein said top support plate (26; Figure 2) comprises an exit hole (not labelled; Figure 2) adjacent said center opening region (31; Figure 2) – claim 37

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ii. The furnace (19, 11a,b; Figure 2) according to claim 41, further comprising a top support plate (26; Figure 2) disposed away from one of the porous structures (12; Figure 2; column 5, lines 61-67) at an end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) opposite said one end thereby blocking most of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end and thereby forming an open passage (holes in 26, not labelled; Figure 2) therebetween wherein some of said gas passes from said center opening region (31; Figure 2) to said outer region (36; Figure 2) through said open passage (holes in 26, not labelled; Figure 2); said top support plate (26; Figure 2) comprising at least one hole (not labelled; Figure 2) adjacent said center opening region (31; Figure 2) and extending therethrough, wherein at least some of said gas passes out of said center opening region (31; Figure 2) at said end through said hole (holes of lowest 15, not labelled; Figure 2) – as claimed by claim 42

Christin does not teach:

- i. The furnace according to Claim 25, wherein said inlet opening (holes of lowest 15, not labelled; Figure 2) comprises said hole and a smaller, upper hole wherein said hole is a larger, lower hole, wherein said passageway (volume within 25+22a; Figure 2) extends through said base plate (15a; Figure 2) to an outer edge of said base plate (15a; Figure 2), as claimed by claim 27
- ii. a smaller hole away from said exit hole (not labelled; Figure 2), said top support plate (26; Figure 2) blocking said outer region (36; Figure 2) whereby most of said second portion of gas passes through one or more of said exit holes (not labelled; Figure 2) and at least some of said

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second portion passes through one or more of said smaller holes (11a/16 interface; Figure 2) – claim 37

iii. The furnace (19, 11a,b; Figure 2) according to claim 24, further comprising a hole (holes of lowest 15, not labelled; Figure 2) receiving said gas from said discharge opening (holes in 20; Figure 2) and a passageway (volume within 25+22a; Figure 2) extending from said hole (holes of lowest 15, not labelled; Figure 2) to said outer region (36; Figure 2), said second portion passing through said passageway to said plurality of openings (openings in 15a; Figure 2); wherein said inlet opening (holes of lowest 15, not labelled; Figure 2) comprises said hole (holes of lowest 15, not labelled; Figure 2) and a smaller, upper hole is a larger, lower hole, wherein said passageway (volume within 25+22a; Figure 2) extends through said base plate (15a; Figure 2) to an outer edge of said base plate (15a; Figure 2); wherein said first portion is between about 60% to 80% of said gas and said second portion is between about 40% to 20% of said gas; and further comprising spacers (33; Figure 2) disposed between adjacent porous structures (12; Figure 2; column 5, lines 61-67) in the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) thereby forming open passages (holes in 26, not labelled; Figure 2) therebetween, wherein some of said first portion of gas passes from said center opening region (31; Figure 2) to said outer region (36; Figure 2) through said open passages (holes in 26, not labelled; Figure 2), as claimed by claim 41

It would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the relative size of Christin's hole dimensions to "smaller" or "larger" holes.

Motivation to optimize the relative size of Christin's hole dimensions to "smaller" or "larger" holes is for controlling flow characteristics of Christin's apparatus as taught by Christin (column

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1; lines 28-40). It is well established that changes in apparatus dimensions are within the level of ordinary skill in the art.(Gardner v. TEC Systems, Inc. , 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied , 469 U.S. 830, 225 USPQ 232 (1984); In re Rose , 220 F.2d 459, 105 USPQ 237 (CCPA 1955); In re Rinehart, 531 F.2d 1048, 189 USPQ 143 (CCPA 1976); See MPEP 2144.04)

9. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Christin et al. (US 5,904,957 A) in view of Porter; Cole D. et al. (US 5,626,680 A). Christin is discussed above. Christin does not teach the furnace (19, 11a,b; Figure 2) according to claim 34, further comprising a thermocouple wire installed through said longitudinal hole (not labelled; Figure 2) and extending through said center opening region (31; Figure 2), said thermocouple wire being connected to a thermocouple embedded in a sample porous structure, as claimed by claim 35

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add Porter's thermocouple embedded wafer to Christin's apparatus.

Motivation to add Porter's thermocouple embedded wafer is for determining the "maximum acceptable stress limit to which a wafer can be exposed" as taught by Porter (column 6, lines 40-48)

10. Claim 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christin et al. (US 5,904,957 A) in view of Liu; Jingbao et al. (US 6,403,491 B1) and Porter; Cole D. et al. (US 5,626,680 A). Christin is discussed above. Christin does not teach:

- i. The furnace (19, 11a,b; Figure 2) according to claim 39, further comprising a cap disposed at one end of the each of said stacks (see plural lowest 30; Figure 2; column 6, lines 49-58) of porous structures (12; Figure 2; column 5, lines 61-67) and extending partially into said center

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opening region (31; Figure 2) thereby blocking most of said first portion of gas from passing out of said center opening region (31; Figure 2) at said end, said cap comprising at least one longitudinal hole (not labelled; Figure 2), wherein at least some of said gas passes out of said center opening region (31; Figure 2) at said end through said longitudinal hole (not labelled; Figure 2); and a thermocouple wire installed through said longitudinal hole (not labelled; Figure 2) and extending through said center opening region (31; Figure 2), said thermocouple wire being connected to a thermocouple embedded in a sample porous structure, as claimed by claim 40

Liu teaches a cap (350a; Figure 4) for controlling gas flow in Liu's apparatus.

Porter teaches a thermocouple (96, 98; Figure 11; column 6, lines 24-30) embedded wafer (94; Figure 11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add Liu's cap and Porter's thermocouple embedded wafer to Christin's apparatus.

Motivation to add Liu's cap is to facilitate process gas distribution as taught by Liu (column 14; lines 22-34). Motivation to add Porter's thermocouple embedded wafer is for determining the "maximum acceptable stress limit to which a wafer can be exposed" as taught by Porter (column 6, lines 40-48)

11. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Christin et al. (US 5,904,957 A) in view of Muruges; Laxman et al. (US 6,450,117 B1). Christin is discussed above. Christin does not teach Christin's distributor (25; Figure 2) having a radial hole passageway. Muruges teaches a similar reactor (30; Figure 3) with a gas distributor (65; column 3; lines 41-55).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace Christin's distributor (25; Figure 2) with Murugesh's distributor (65; column 3; lines 41-55).

Motivation to replace Christin's distributor (25; Figure 2) with Murugesh's distributor (65; column 3; lines 41-55) is for controlling the location of process gas injection within reactors as taught by Murugesh (column 7, line 65 – column 8, line 7).

Response to Arguments

12. Applicant's arguments filed February 20, 2008 have been fully considered but they are not persuasive.

Applicant's detailed description (on page 9 of the response) of the tracked course of the processing gasses through Applicant's apparatus is beneficial for an understanding of the invention, however, as the Examiner has demonstrated above, the *claimed* invention remains anticipated by Christin et al for the reasons set forth above. Specifically, Applicant's arguments based on "portions" of gas flowing into/near sections of the claimed apparatus is not believed to distinguish from Christin et al in a *structural* manner. Further, Applicant's argument that Christin et al does not show a "sealed preheater" is without merit because Applicant has not claimed anything more than a heater in an already "sealed" chamber as also described by Christin et al. Further even if Christin et al's gas "portions" are purportedly "not controlled", "not useful for the intended purpose", and "detrimental", such positions do not detract from the fact that the claimed *structure* is anticipated by Christin et al in terms of structure. When the structure recited in the reference is substantially identical to that of the claims, claimed properties or functions are

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presumed to be inherent (In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977); MPEP 2112.01).

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Rudy Zervigon whose telephone number is (571) 272-1442. The examiner can normally be reached on a Monday through Thursday schedule from 8am through 7pm. The official fax phone number for the 1792 art unit is (571) 273-8300. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Chemical and Materials Engineering art unit receptionist at (571) 272-1700. If the examiner can not be reached please contact the examiner's supervisor, Parviz Hassanzadeh, at (571) 272-1435.

/Rudy Zervigon/

Primary Examiner, Art Unit 1792

Application Number 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/658,988	DAWS ET AL.	
	Examiner	Art Unit	
	Rudy Zervigon	1792	